



[7590-01-P]

## NUCLEAR REGULATORY COMMISSION

[NRC-2015-0047]

### Considerations in Licensing High Burnup Spent Fuel in Dry Storage and Transportation

**AGENCY:** Nuclear Regulatory Commission.

**ACTION:** Draft regulatory issue summary; request for comment.

**SUMMARY:** The U.S. Nuclear Regulatory Commission (NRC) is seeking public comment on the draft regulatory issue summary (RIS) addressing considerations for licensing high burnup spent fuel in dry storage and transportation. The purpose of this RIS is to provide information on some approaches acceptable to the NRC for demonstrating compliance with regulations in applications for issuance of dry storage cask certificate of compliance (CoCs), independent spent fuel storage installation (ISFSI) licenses, and CoCs for transportation packages involving high burnup spent fuel (HBF).

**DATES:** Submit comments by **[INSERT DATE 45 DAYS FROM DATE OF PUBLICATION IN THE *FEDERAL REGISTER*]**. Comments received after this date will be considered if it is practical to do so, but the Commission is able to ensure consideration only for comments received before this date.

**ADDRESSEES:** You may submit comments by any of the following methods (unless this document describes a different method for submitting comments on a specific subject):

- **Federal Rulemaking Web Site:** Go to <http://www.regulations.gov> and search for Docket ID **NRC-2015-0047**. Address questions about NRC dockets to Carol Gallagher; telephone: 301-415-3463; e-mail: [Carol.Gallagher@nrc.gov](mailto:Carol.Gallagher@nrc.gov). For technical questions, contact the individual listed in the FOR FURTHER INFORMATION CONTACT section of this document.

- **Mail comments to:** Cindy Bladey, Office of Administration, Mail Stop: OWFN-12 H08, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001.

For additional direction on obtaining information and submitting comments, see “Obtaining Information and Submitting Comments” in the SUPPLEMENTARY INFORMATION section of this document.

**FOR FURTHER INFORMATION CONTACT:** Huda Akhavannik, Office of Nuclear Material Safety and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001; telephone: 301-287-9241, e-mail: [Huda.Akhavannik@nrc.gov](mailto:Huda.Akhavannik@nrc.gov).

## **SUPPLEMENTARY INFORMATION:**

### **I. Obtaining Information and Submitting Comments.**

#### **A. Obtaining Information.**

Please refer to Docket ID **NRC-2015-0047** when contacting the NRC about the availability of information for this action. You may obtain publicly-available information related to this action by any of the following methods:

- **Federal Rulemaking Web Site:** Go to <http://www.regulations.gov> and search for Docket ID **NRC-2015-0047**.

- **NRC's Agencywide Documents Access and Management System (ADAMS):**

You may obtain publicly-available documents online in the ADAMS Public Documents collection at <http://www.nrc.gov/reading-rm/adams.html>. To begin the search, select "ADAMS Public Documents" and then select "Begin Web-based ADAMS Search." For problems with ADAMS, please contact the NRC's Public Document Room (PDR) reference staff at 1-800-397-4209, 301-415-4737, or by e-mail to [pdr.resource@nrc.gov](mailto:pdr.resource@nrc.gov). The draft RIS is available in ADAMS under Accession No. ML14175A203.

- **NRC's PDR:** You may examine and purchase copies of public documents at the NRC's PDR, Room O1-F21, One White Flint North, 11555 Rockville Pike, Rockville, Maryland 20852.

## B. Submitting Comments.

Please include Docket ID **NRC-2015-0047** in your comment submission.

The NRC cautions you not to include identifying or contact information that you do not want to be publicly disclosed in your comment submission. The NRC will post all comment submissions at <http://www.regulations.gov> as well as enter the comment submissions into ADAMS. The NRC does not routinely edit comment submissions to remove identifying or contact information.

If you are requesting or aggregating comments from other persons for submission to the NRC, then you should inform those persons not to include identifying or contact information that they do not want to be publicly disclosed in their comment submission. Your request should state that the NRC does not routinely edit comment submissions to remove such information



before making the comment submissions available to the public or entering the comment submissions into ADAMS.

## **II. Background.**

The NRC is issuing this draft RIS to inform addressees of considerations for licensing HBF in dry storage and transportation. When evaluating HBF dry storage and transportation applications, the effects of radial hydrides and creep strain on the cladding must be taken into consideration. The purpose of this RIS is to provide information on some approaches acceptable to the NRC for demonstrating compliance with regulations in applications for issuance of dry storage cask CoCs, ISFSI licenses, and CoCs for transportation packages involving HBF.

The NRC issues RISs to communicate with stakeholders on a broad range of matters. This may include communicating staff technical positions on matters that have not been communicated to or are not broadly understood by the nuclear industry; such is the case with this RIS.

### **Proposed Action**

The NRC is requesting public comments on the draft RIS. The NRC staff will make a final determination regarding issuance of the RIS after it considers any public comments received in response to this request.

Dated at Rockville, Maryland, this 20th day of February 2015.

For the Nuclear Regulatory Commission.

Mark Lombard, Director,  
Division of Spent Fuel Management,  
Office of Nuclear Material Safety  
and Safeguards.

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